



**California State Fire Marshal**  
**National Fire Incident Reporting System**

Data as of: 01/28/2008

**FDID Range:**  
 0 to No Upper Bound

**Incident Date Range:**  
 01/01/2003 to 12/31/2007

**Incident Type:**  
 111 to 123

**Detection System Non-Operation, 2003-2007**

<u>Incident Year</u>	<u>Detector Failure Reason</u>	<u>Detector Type</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
2003									
	Battery discharged or dead								
		Smoke	68	\$655,525	\$230,275	0	0	3	0
		<b>Subtotal</b>	<b>68</b>	<b>\$655,525</b>	<b>\$230,275</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>
	Battery missing or disconnected								
		Combination smoke - heat	3	\$40,100	\$50	0	0	0	0
		Heat	1	\$7,500	\$300	0	0	0	0
		More than 1 type present	1	\$0	\$0	0	0	0	0
		Smoke	145	\$1,951,300	\$631,010	4	0	10	5
		Undetermined	6	\$61,100	\$13,350	0	0	0	0
		<b>Subtotal</b>	<b>156</b>	<b>\$2,060,000</b>	<b>\$644,710</b>	<b>4</b>	<b>0</b>	<b>10</b>	<b>5</b>
	Defective								
		Combination smoke - heat	1	\$0	\$1,500	0	0	1	0
		Other	1	\$0	\$0	0	0	0	0
		Smoke	10	\$12,000	\$2,500	1	0	0	1
		<b>Subtotal</b>	<b>12</b>	<b>\$12,000</b>	<b>\$4,000</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>
	Hardwired power failure, shut-off or disconnect								
		Combination smoke - heat	3	\$0	\$0	0	0	0	0
		Other	1	\$0	\$0	0	0	0	0
		Smoke	17	\$124,000	\$62,400	0	0	0	0
		<b>Subtotal</b>	<b>21</b>	<b>\$124,000</b>	<b>\$62,400</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Improper installation or placement								
		Combination smoke - heat	1	\$1,000	\$0	0	0	0	0
		Other	1	\$0	\$0	1	0	0	0
		Smoke	6	\$7,000	\$750	0	0	0	0

## Detection System Non-Operation, 2003-2007

<u>Incident Year</u>	<u>Detector Failure Reason</u>	<u>Detector Type</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
2003	<b>Subtotal</b>		<b>8</b>	<b>\$8,000</b>	<b>\$750</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>Lack of cleaning</b>								
		Other	1	\$0	\$0	0	0	0	0
		Smoke	21	\$42,550	\$4,150	0	0	0	0
		Undetermined	2	\$100,000	\$5,000	0	0	0	0
	<b>Subtotal</b>		<b>24</b>	<b>\$142,550</b>	<b>\$9,150</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>Other</b>								
		Combination smoke - heat	3	\$0	\$1,041	0	0	1	0
		More than 1 type present	1	\$5,000	\$2,000	0	0	0	0
		Other	1	\$1,000	\$1,000	0	0	1	0
		Smoke	10	\$523,200	\$159,100	0	0	1	0
		Undetermined	2	\$3,000	\$7,000	0	0	0	0
	<b>Subtotal</b>		<b>17</b>	<b>\$532,200</b>	<b>\$170,141</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>
	<b>Undetermined</b>								
		Combination smoke - heat	1	\$0	\$1,000	0	0	0	0
		Heat	1	\$500	\$0	0	0	0	0
		More than 1 type present	2	\$45,000	\$20,100	0	0	0	0
		Other	1	\$0	\$0	0	0	0	0
		Smoke	104	\$1,835,650	\$594,500	2	0	14	3
		Sprinkler, water flow detection	1	\$0	\$22,500	0	0	0	0
		Undetermined	26	\$736,292	\$227,100	4	0	3	0
	<b>Subtotal</b>		<b>136</b>	<b>\$2,617,442</b>	<b>\$865,200</b>	<b>6</b>	<b>0</b>	<b>17</b>	<b>3</b>
<b>2003</b>	<b>Total</b>		<b>442</b>	<b>\$6,151,717</b>	<b>\$1,986,626</b>	<b>12</b>	<b>0</b>	<b>34</b>	<b>9</b>
2004	<b>Battery discharged or dead</b>								
		Combination smoke - heat	1	\$5,000	\$100	0	0	0	0
		Smoke	92	\$528,550	\$213,195	0	0	3	0
		Undetermined	3	\$33,000	\$5,000	0	0	0	0
	<b>Subtotal</b>		<b>96</b>	<b>\$566,550</b>	<b>\$218,295</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>
	<b>Battery missing or disconnected</b>								
		Combination smoke - heat	1	\$0	\$0	0	0	0	0
		Smoke	184	\$2,865,660	\$765,835	2	0	13	1
		Undetermined	7	\$107,000	\$45,150	0	0	0	0

## Detection System Non-Operation, 2003-2007

<u>Incident Year</u>	<u>Detector Failure Reason</u>	<u>Detector Type</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
<b>Subtotal</b>			<b>192</b>	<b>\$2,972,660</b>	<b>\$810,985</b>	<b>2</b>	<b>0</b>	<b>13</b>	<b>1</b>
<b>Defective</b>									
	Combination smoke - heat		1	\$800	\$800	0	0	0	0
	Heat		1	\$30,000	\$30,000	0	0	0	0
	Smoke		10	\$34,200	\$10,750	0	0	0	1
<b>Subtotal</b>			<b>12</b>	<b>\$65,000</b>	<b>\$41,550</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>
<b>Hardwired power failure, shut-off or disconnect</b>									
	Heat		1	\$0	\$0	0	0	0	0
	More than 1 type present		5	\$2,100	\$1,100	0	0	0	0
	Smoke		16	\$89,500	\$20,400	0	0	1	0
	Sprinkler, water flow detection		3	\$2,005,500	\$101,000	0	0	0	0
<b>Subtotal</b>			<b>25</b>	<b>\$2,097,100</b>	<b>\$122,500</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>
<b>Improper installation or placement</b>									
	Smoke		8	\$43,300	\$6,600	0	0	0	0
<b>Subtotal</b>			<b>8</b>	<b>\$43,300</b>	<b>\$6,600</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Lack of cleaning</b>									
	Smoke		22	\$444,700	\$64,281	0	0	0	0
	Sprinkler, water flow detection		1	\$20,000	\$10,000	0	0	0	0
	Undetermined		1	\$30,000	\$30,000	0	0	2	0
<b>Subtotal</b>			<b>24</b>	<b>\$494,700</b>	<b>\$104,281</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>
<b>Other</b>									
	Combination smoke - heat		1	\$210,000	\$50,000	0	0	0	0
	Smoke		26	\$734,800	\$312,850	0	0	1	0
	Undetermined		7	\$23,000	\$19,300	0	0	0	0
<b>Subtotal</b>			<b>34</b>	<b>\$967,800</b>	<b>\$382,150</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>
<b>Undetermined</b>									
	Combination smoke - heat		7	\$33,500	\$1,250	0	0	0	0
	Heat		2	\$7,000	\$1,000	0	0	0	0
	More than 1 type present		4	\$120,200	\$20,400	0	0	0	0
	Other		1	\$50,000	\$10,000	0	0	0	0
	Smoke		144	\$3,138,071	\$1,482,576	11	0	18	3
	Sprinkler, water flow detection		4	\$0	\$0	0	0	0	0
	Undetermined		19	\$369,500	\$47,251	0	0	1	0
<b>Subtotal</b>			<b>181</b>	<b>\$3,718,271</b>	<b>\$1,562,477</b>	<b>11</b>	<b>0</b>	<b>19</b>	<b>3</b>

## Detection System Non-Operation, 2003-2007

<u>Incident Year</u>	<u>Detector Failure Reason</u>	<u>Detector Type</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
2004	Total		572	\$10,925,381	\$3,248,838	13	0	39	5
2005									
	<b>Battery discharged or dead</b>								
		Combination smoke - heat	1	\$7,000	\$500	0	0	0	0
		Heat	1	\$15,000	\$10,000	0	0	0	0
		More than 1 type present	1	\$5,000	\$3,500	0	0	0	0
		Other	1	\$0	\$0	0	0	0	0
		Smoke	80	\$1,148,251	\$319,256	0	0	3	0
		Undetermined	3	\$1,000	\$75	0	0	0	0
		<b>Subtotal</b>	<b>87</b>	<b>\$1,176,251</b>	<b>\$333,331</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>
	<b>Battery missing or disconnected</b>								
		Combination smoke - heat	1	\$7,500	\$2,000	0	0	0	0
		More than 1 type present	2	\$2,500	\$1,050	0	0	0	0
		Other	2	\$0	\$0	0	0	0	1
		Smoke	222	\$4,416,852	\$1,117,756	5	0	18	2
		Undetermined	7	\$164,600	\$26,250	0	0	0	0
		<b>Subtotal</b>	<b>234</b>	<b>\$4,591,452</b>	<b>\$1,147,056</b>	<b>5</b>	<b>0</b>	<b>18</b>	<b>3</b>
	<b>Defective</b>								
		Smoke	22	\$100,560	\$37,066	0	0	1	0
		<b>Subtotal</b>	<b>22</b>	<b>\$100,560</b>	<b>\$37,066</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>
	<b>Hardwired power failure, shut-off or disconnect</b>								
		Combination smoke - heat	3	\$430,000	\$4,500	0	0	0	0
		Heat	1	\$50,000	\$100,000	0	0	0	0
		Smoke	28	\$327,550	\$136,675	0	0	1	1
		Undetermined	2	\$3,100	\$8,000	0	0	0	0
		<b>Subtotal</b>	<b>34</b>	<b>\$810,650</b>	<b>\$249,175</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>
	<b>Improper installation or placement</b>								
		Smoke	10	\$173,500	\$79,600	0	0	1	0
		<b>Subtotal</b>	<b>10</b>	<b>\$173,500</b>	<b>\$79,600</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>
	<b>Lack of cleaning</b>								
		Heat	2	\$1,000	\$1,000	0	0	0	0
		More than 1 type present	1	\$0	\$0	0	0	0	0
		Smoke	21	\$405,400	\$108,660	0	0	1	0

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2005		Sprinkler, water flow detection	2	\$25,000	\$2,000	0	0	0	0
		Undetermined	2	\$275,000	\$70,000	1	0	1	0
		<b>Subtotal</b>	<b>28</b>	<b>\$706,400</b>	<b>\$181,660</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>
	<b>Other</b>	Combination smoke - heat	1	\$0	\$0	0	0	0	0
		Heat	1	\$0	\$1,000	0	0	0	0
		More than 1 type present	1	\$80,000	\$20,000	0	0	0	0
		Other	1	\$300,000	\$15,000	0	0	0	0
		Smoke	28	\$426,225	\$385,720	0	0	2	0
		Undetermined	4	\$500,000	\$2,500,000	0	0	0	0
		<b>Subtotal</b>	<b>36</b>	<b>\$1,306,225</b>	<b>\$2,921,720</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>
	<b>Undetermined</b>	Combination smoke - heat	3	\$20,200	\$3,300	0	0	0	0
		Heat	7	\$167,300	\$20,100	0	0	0	0
		More than 1 type present	2	\$50	\$0	0	0	0	0
		Other	4	\$75,500	\$15,001	0	0	0	0
		Smoke	188	\$5,129,826	\$1,674,496	5	0	21	0
		Sprinkler, water flow detection	6	\$98,500	\$151,500	0	0	0	0
		Undetermined	29	\$1,139,450	\$507,700	0	0	2	1
		<b>Subtotal</b>	<b>239</b>	<b>\$6,630,826</b>	<b>\$2,372,097</b>	<b>5</b>	<b>0</b>	<b>23</b>	<b>1</b>
	<b>Total</b>		<b>690</b>	<b>\$15,495,864</b>	<b>\$7,321,705</b>	<b>11</b>	<b>0</b>	<b>51</b>	<b>5</b>
2006	<b>Battery discharged or dead</b>	Combination smoke - heat	1	\$150,000	\$50,000	0	0	0	0
		Smoke	78	\$1,531,351	\$345,471	2	0	2	0
		Undetermined	5	\$266,000	\$71,000	0	0	1	1
		<b>Subtotal</b>	<b>84</b>	<b>\$1,947,351</b>	<b>\$466,471</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>1</b>
	<b>Battery missing or disconnected</b>	Heat	2	\$12,000	\$16,000	0	0	0	0
		More than 1 type present	1	\$0	\$750	0	0	0	0
		Other	2	\$25,000	\$5,100	0	0	1	0
		Smoke	142	\$3,783,151	\$909,954	0	0	7	5
		Undetermined	6	\$80,000	\$39,800	0	0	0	0
		<b>Subtotal</b>	<b>153</b>	<b>\$3,900,151</b>	<b>\$971,604</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>5</b>

## Detection System Non-Operation, 2003-2007

<u>Incident Year</u>	<u>Detector Failure Reason</u>	<u>Detector Type</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
<b>Defective</b>									
		Combination smoke - heat	1	\$2,000	\$1,000	0	0	0	0
		More than 1 type present	1	\$100	\$50	0	0	0	0
		Smoke	19	\$108,405	\$46,090	0	0	4	0
		<b>Subtotal</b>	<b>21</b>	<b>\$110,505</b>	<b>\$47,140</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>
<b>Hardwired power failure, shut-off or disconnect</b>									
		Combination smoke - heat	3	\$9,000	\$1,500	0	0	0	0
		Heat	2	\$300,000	\$20,000	0	0	0	0
		More than 1 type present	1	\$2,000	\$1,000	0	0	0	0
		Smoke	23	\$1,799,550	\$159,851	3	0	3	0
		Undetermined	3	\$250,000	\$35,000	0	0	0	0
		<b>Subtotal</b>	<b>32</b>	<b>\$2,360,550</b>	<b>\$217,351</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>0</b>
<b>Improper installation or placement</b>									
		More than 1 type present	1	\$0	\$6,000	0	0	0	0
		Smoke	11	\$567,000	\$188,651	0	0	1	0
		<b>Subtotal</b>	<b>12</b>	<b>\$567,000</b>	<b>\$194,651</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>
<b>Lack of cleaning</b>									
		Smoke	23	\$183,001	\$81,400	0	0	2	0
		Undetermined	3	\$20,001	\$20,500	0	0	0	0
		<b>Subtotal</b>	<b>26</b>	<b>\$203,002</b>	<b>\$101,900</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>
<b>Other</b>									
		Combination smoke - heat	1	\$200	\$500	0	0	0	0
		Smoke	23	\$960,301	\$47,951	1	0	1	1
		Undetermined	2	\$5,200	\$0	0	0	0	0
		<b>Subtotal</b>	<b>26</b>	<b>\$965,701</b>	<b>\$48,451</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>
<b>Undetermined</b>									
		Combination smoke - heat	9	\$383,500	\$520,500	0	0	1	0
		Heat	2	\$160,375	\$40,250	0	0	0	0
		More than 1 type present	5	\$3,550	\$53,101	0	0	0	0
		Other	1	\$1,000	\$0	0	0	0	0
		Smoke	178	\$5,522,570	\$1,462,631	3	0	17	0
		Sprinkler, water flow detection	1	\$60,000	\$20,000	0	0	0	0
		Undetermined	29	\$1,015,724	\$223,555	0	0	1	0
		<b>Subtotal</b>	<b>225</b>	<b>\$7,146,719</b>	<b>\$2,320,037</b>	<b>3</b>	<b>0</b>	<b>19</b>	<b>0</b>

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2006	Total		579	\$17,200,979	\$4,367,605	9	0	41	7
2007									
	Battery discharged or dead								
	Combination smoke - heat		2	\$5,000	\$0	0	0	0	0
	Other		1	\$2,000	\$0	0	0	0	0
	Smoke		60	\$1,497,400	\$453,570	0	0	1	0
	Undetermined		1	\$50,000	\$0	0	0	0	0
	Subtotal		64	\$1,554,400	\$453,570	0	0	1	0
	Battery missing or disconnected								
	Combination smoke - heat		2	\$0	\$0	0	0	0	0
	Other		1	\$2,000	\$0	0	0	0	0
	Smoke		115	\$1,964,800	\$428,785	0	0	5	1
	Undetermined		7	\$248,500	\$47,000	1	0	0	0
	Subtotal		125	\$2,215,300	\$475,785	1	0	5	1
	Defective								
	Combination smoke - heat		2	\$50,000	\$35,000	0	0	0	0
	Smoke		9	\$42,900	\$11,400	0	0	1	0
	Sprinkler, water flow detection		1	\$2,000	\$1,000	0	0	0	0
	Subtotal		12	\$94,900	\$47,400	0	0	1	0
	Hardwired power failure, shut-off or disconnect								
	Combination smoke - heat		1	\$50,000	\$10,000	0	0	0	0
	Smoke		20	\$1,770,400	\$209,200	0	0	0	0
	Sprinkler, water flow detection		1	\$50,000	\$500	0	0	0	0
	Undetermined		2	\$4,000	\$1,000	0	0	0	0
	Subtotal		24	\$1,874,400	\$220,700	0	0	0	0
	Improper installation or placement								
	Smoke		4	\$8,700	\$3,000	0	0	0	0
	Undetermined		2	\$32,000	\$1,000	0	0	0	0
	Subtotal		6	\$40,700	\$4,000	0	0	0	0
	Lack of cleaning								
	Smoke		21	\$354,852	\$82,432	0	0	0	0
	Undetermined		2	\$7,500	\$5,100	0	0	0	0
	Subtotal		23	\$362,352	\$87,532	0	0	0	0

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	<b>Other</b>								
		Combination smoke - heat	1	\$1,000	\$3,000	0	0	0	0
		More than 1 type present	1	\$190	\$10	0	0	0	0
		Smoke	10	\$331,500	\$38,850	1	0	0	1
		Sprinkler, water flow detection	3	\$0	\$86,000	0	0	0	0
		Undetermined	2	\$9,000	\$250	0	0	0	0
		<b>Subtotal</b>	<b>17</b>	<b>\$341,690</b>	<b>\$128,110</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
	<b>Undetermined</b>								
		Combination smoke - heat	3	\$9,200	\$2,000	0	0	0	0
		More than 1 type present	2	\$1,250	\$2,100	0	0	0	0
		Other	2	\$1,000	\$1,300	0	0	0	0
		Smoke	133	\$3,825,590	\$1,187,080	0	0	9	1
		Undetermined	16	\$927,502	\$188,250	1	0	0	2
		<b>Subtotal</b>	<b>156</b>	<b>\$4,764,542</b>	<b>\$1,380,730</b>	<b>1</b>	<b>0</b>	<b>9</b>	<b>3</b>
<b>2007</b>	<b>Total</b>		<b>427</b>	<b>\$11,248,284</b>	<b>\$2,797,827</b>	<b>3</b>	<b>0</b>	<b>16</b>	<b>5</b>
	<b>Grand Total</b>		<b>2,710</b>	<b>\$61,022,225</b>	<b>\$19,722,601</b>	<b>48</b>	<b>0</b>	<b>181</b>	<b>31</b>

The data contained in this report comes from the State Fire Marshal's California All Incident Reporting System (CAIRS) data warehouse. Property and contents loss figures, if included herein, are estimates only. These emergency incident statistics, including injury and death counts, are based only upon information submitted to the State Fire Marshal by participating California fire departments. Please note that apparent variations in incident counts and associated losses shown in this report may be solely due to fluctuations in the amount of data submitted to the State Fire Marshal. And while the incoming data is validated according to logical data rules, individual data elements are not always verified for accuracy.